

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798140

Luminaire Tested: 14GRSCT3-A19 156-UNV-LOW-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291376)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14GRSCT3-A19 156-UNV-LOW-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

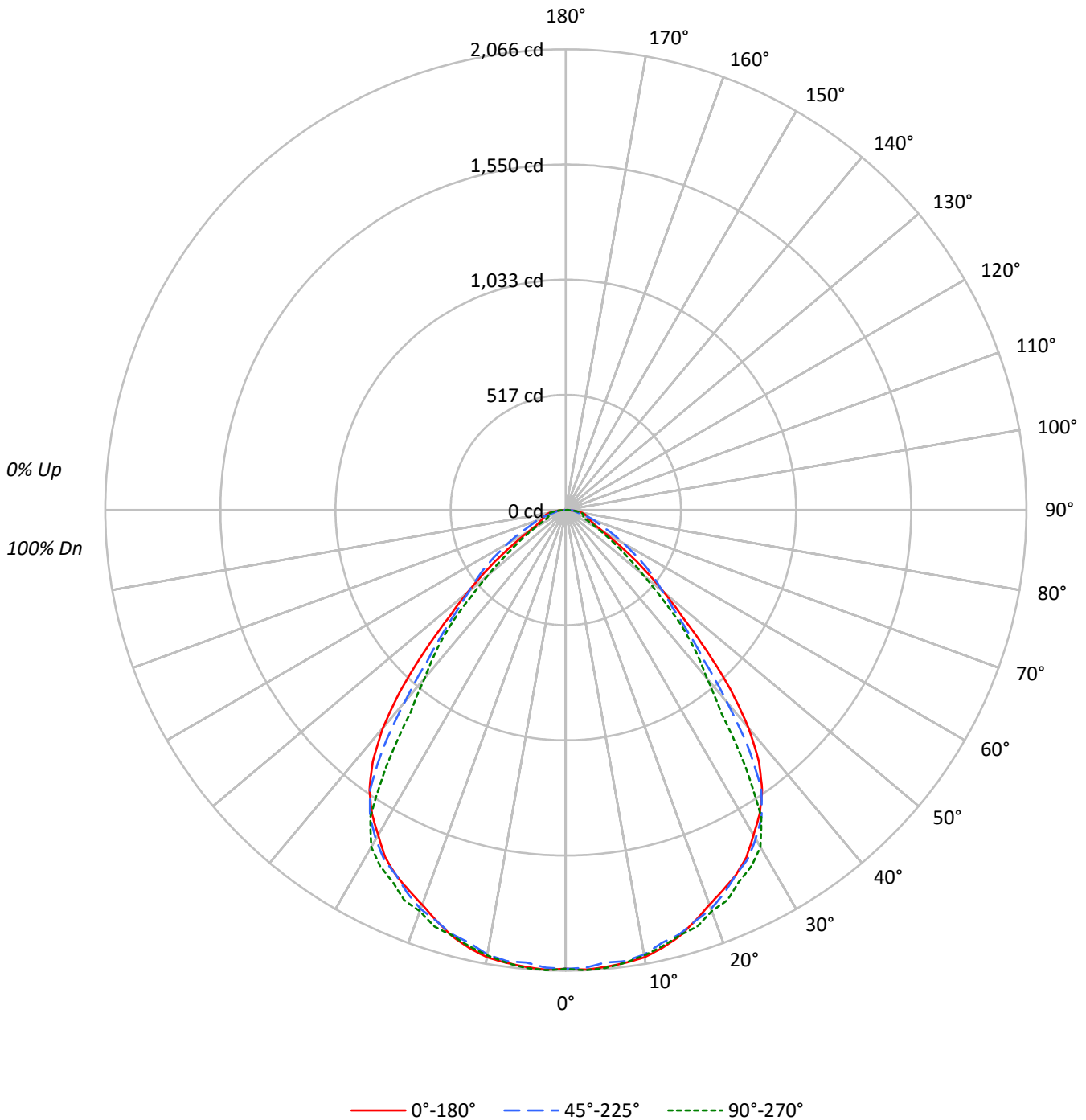
Lumens per Lamp: N/A  
Luminaire Lumens: 3869.6 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77	77	77	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68	68	68	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61	61	61	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54	54	54	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	44	44	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34	34	34	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5537	5537	5537
5°	5556	5503	5568
10°	5564	5531	5540
15°	5508	5488	5500
20°	5393	5451	5481
25°	5360	5357	5460
30°	5229	5293	5422
35°	5043	5023	4615
40°	4478	3952	3460
45°	3398	2957	2798
50°	2410	2366	1898
55°	1650	2020	1305
60°	1020	1611	872
65°	840	1240	631
70°	836	1081	649
75°	1004	775	866
80°	1155	714	1086
85°	1090	1260	1229

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3546 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.2	5.0
10°-20°	557.2	14.4
20°-30°	838.0	21.7
30°-40°	913.6	23.6
40°-50°	639.7	16.5
50°-60°	362.1	9.4
60°-70°	198.1	5.1
70°-80°	120.1	3.1
80°-90°	45.5	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1590.5	41.1
0°-40°	2504.0	64.7
0°-60°	3505.8	90.6
0°-90°	3869.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2057	2053	2037	2061	2061	196
15°	1977	1972	1970	1998	1974	556
25°	1805	1809	1804	1846	1839	829
35°	1535	1528	1529	1451	1405	946
45°	893	932	777	767	735	693
55°	352	421	430	427	278	321
65°	132	217	195	246	99	136
75°	97	139	74	146	83	100
85°	35	58	41	50	40	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2057.6	2057.6	2057.6	2057.6	2057.6
2.5°	2062.9	2060.4	2054.1	2066.5	2065.6
5°	2056.8	2053.2	2037.2	2061.2	2061.2
7.5°	2048.0	2039.1	2040.0	2053.2	2047.1
10°	2036.4	2021.2	2024.0	2027.6	2027.6
12.5°	2009.9	1995.6	1988.6	2000.0	2003.6
15°	1977.1	1971.8	1969.9	1998.3	1974.3
17.5°	1931.0	1942.5	1931.8	1955.0	1958.5
20°	1883.2	1905.3	1903.6	1919.4	1914.1
22.5°	1844.3	1858.4	1858.4	1877.9	1893.7
25°	1805.1	1808.7	1804.3	1846.0	1838.8
27.5°	1754.6	1752.1	1766.2	1787.5	1801.6
30°	1682.9	1683.9	1703.3	1731.7	1745.0
32.5°	1617.5	1609.5	1633.4	1645.9	1631.6
35°	1535.0	1528.0	1528.9	1450.8	1404.9
37.5°	1422.6	1428.7	1347.3	1204.6	1144.4
40°	1274.7	1287.1	1124.9	1018.6	985.0
42.5°	1095.6	1099.2	922.0	887.5	865.4
45°	892.8	931.9	776.9	767.2	735.2
47.5°	707.8	780.4	651.0	657.3	581.2
50°	575.7	648.3	565.2	567.7	453.4
52.5°	455.3	526.2	498.7	490.7	356.0
55°	351.6	420.8	430.5	426.9	278.2
57.5°	258.6	333.1	361.5	374.7	214.4
60°	189.6	271.9	299.4	325.9	162.0
62.5°	150.7	235.7	245.3	284.3	125.8
65°	131.9	216.9	194.8	246.2	99.1
67.5°	117.8	206.4	158.7	218.0	86.9
70°	106.3	186.0	137.4	194.8	82.5
72.5°	106.3	163.1	108.2	172.8	83.3
75°	96.6	139.1	74.5	146.2	83.3
77.5°	85.8	118.7	55.8	118.7	77.9
80°	74.5	93.0	46.1	91.3	70.1
82.5°	54.9	70.1	39.8	68.2	56.6
85°	35.3	57.7	40.8	49.7	39.8
87.5°	16.8	29.2	25.7	24.8	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)